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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Thomas J. CAMPANA, Jr. et al
Serial No.:	09/161,462
Filed:	September 28, 1998
For:	ELECTRONIC MAIL SYSTEM WITH RF COMMUNICATIONS TO MOBILE PROCESSORS
Group:	2744
Examiner:	William Trost

SECOND PRELIMINARY AMENDMENT

Assistant Commissioner
for Patents
Washington, D. C. 20231

May 25, 1999

Sir:

Prior to examination of the above-identified application, please amend the specification as follows:

IN THE SPECIFICATION:

Page ii, line 13, please modify the insert added by the first Preliminary Amendment of September 28, 1998 as follows.

after "Serial No. 08/844,957" and before the period, insert the following:

--, filed April 23, 1997, now U.S. Patent No. 5,819,172; which is a continuation of United States Patent Application Serial No. 08/443,430, filed May 18, 1995, now U.S. Patent 5,625,670; which is a continuation of United States Patent Application Serial No. 07/702,939, filed May 20, 1991, now U.S. Patent 5,438,980.

IN THE CLAIMS:

Please cancel original claim 1 without disclaimer or prejudice and insert new claims 86-457 as follows:

86. In a system comprising a communication system which transmits electronic mail, inputted to the communication system from a plurality of processors, and a RF system having a plurality of RF receivers which receive broadcasts from at least one broadcast location, the broadcast including information contained within the electronic mail and an identification of each RF receiver to receive the broadcast, an interface comprising:

at least one input which receives at least the information contained within the electronic mail;

at least one output which outputs a processed output, the processed output including the information contained within the electronic mail and an identification of each RF receiver which is to receive the broadcast of the information; and

a processor, coupled to the at least one input and to the at least one output, which processes at least the information contained within the electronic mail to produce the processed output outputted by the at least one output.

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2 1

87. An interface in accordance with claim 86 wherein:

the system comprises another communication system which transmits other information to be transmitted to the RF receivers;

the at least one input receives the other information from the another communication system; and

the at least one output outputs the processed output which contains the other information and an identification of each RF receiver which is to receive broadcasts from the at least one broadcast location including the other information and the identification of each RF receiver to receive the broadcasts.

14 1

88. An interface in accordance with claim 86 wherein:

the system comprises a plurality of communication systems and the RF system;

the at least one input receives at least the information contained in the electronic mail from the plurality of communication systems;

the processed output comprises the information received from the plurality of communication systems and an identification of each RF receiver to receive the broadcasts; and

the processor processes at least the information received by the at least one input from the plurality of communication systems to produce the processed output.

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~~89~~. An interface in accordance with claim 86 wherein:

the system comprises a plurality of communication systems and a plurality of RF systems each containing a plurality of RF receivers;

the at least one input receives at least the information contained in the electronic mail from the plurality of communication systems;

the processed output comprises the information and an identification of each RF receiver to receive the broadcasts; and

the processor processes at least the information received by the at least one input to produce the processed output.

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~~90~~. An interface in accordance with claim ~~86~~ 1 wherein:

the processing adds the identification of each RF receiver which is to receive the broadcasts to produce the processed output.

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~~91~~. An interface in accordance with claim ~~87~~ wherein:

the processing adds the identification of each RF receiver which is to receive the broadcasts of the information in producing the processed output containing the identification of each RF receiver and the information; and

the processing adds the identification of each RF receiver which is to receive the broadcasts of the other information in producing the processed output containing the identification of each RF receiver and the other information.

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~~92~~. An interface in accordance with claim ~~88~~ wherein:

the processing adds the identification of each RF receiver which is to receive the broadcasts in producing the processed output.

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~~93~~. An interface in accordance with claim ~~89~~ wherein:

the processing adds the identification of each RF receiver which is to receive the broadcasts in producing the processed output.

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~~94~~. An interface in accordance with claim ~~86~~ wherein:

the at least one input receives electronic mail addressed to the interface including the identification of each RF receiver which is to receive the broadcasts of the information and the information to be broadcast to each RF receiver.

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4 2
~~95.~~ An interface in accordance with claim ~~87~~ wherein:

the at least one input receives electronic mail addressed to the interface including the identification of each RF receiver and the information to be broadcast to each RF receiver; and

the at least one input receives information transmissions containing the identification of each RF receiver and the other information to be broadcast to each RF receiver.

16 14
~~96.~~ An interface in accordance with claim ~~88~~ wherein:

the at least one input receives electronic mail addressed to the interface including the identification of each RF receiver and the information to be broadcast to each RF receiver.

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~~97.~~ An interface in accordance with claim ~~89~~ wherein:

the at least one input receives electronic mail addressed to the interface including the identification of each RF receiver and the information to be broadcast to each RF receiver.

58 1
~~98.~~ An interface in accordance with claim ~~86~~ wherein:

the processing processes at least the information contained in the electronic mail to produce the processed output.

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~~99.~~ An interface in accordance with claim ~~98~~ wherein:

the processing deletes information from the electronic mail with the processed output not containing the deleted information.

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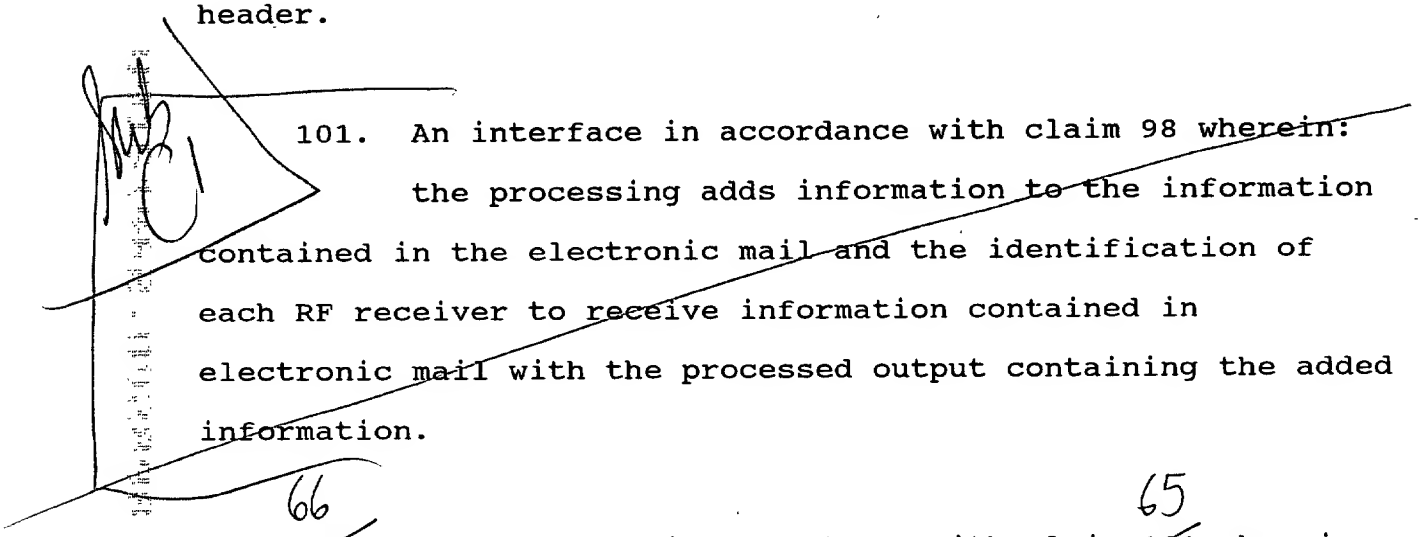
~~100.~~ An interface in accordance with claim ~~99~~ wherein:

the processing deletes a header from the electronic mail with the processed output not containing the deleted header.



101. An interface in accordance with claim 98 ~~wherein~~:

the processing adds information ~~to~~ the information contained in the electronic mail ~~and~~ the identification of each RF receiver to receive information contained in electronic mail with the processed output containing the added information.

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~~102.~~ An interface in accordance with claim ~~101~~ wherein:

the added information is a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

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~~103.~~ An interface in accordance with claim ~~102~~ wherein:

the added information comprises a packet containing the destination to which the processed output is transmitted within the RF system to where broadcast occurs.

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~~104~~. An interface in accordance with claim ~~103~~ wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted by the RF system.

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~~105~~. An interface in accordance with claim ~~86~~ wherein:

the processor controls performing of a security check on at least the information which is received by the at least one input to determine if at least the information contained in the electronic mail should be outputted by the at least one output for transmission and broadcast by the RF system.

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~~106~~. An interface in accordance with claim ~~105~~ wherein:

the security check is performed by a comparison of an identification of the receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of the receiver which is to receive the information matches one of the RF receivers in the RF system.

5 2

~~107~~. An interface in accordance with claim ~~87~~ wherein:

the processing processes at least the information contained in the electronic mail to produce the processed output.

6 ~~108~~. An interface in accordance with claim 5 ~~107~~ wherein:

the processing deletes information from the electronic mail with the processed output not containing the deleted information.

7 ~~109~~. An interface in accordance with claim 6 ~~108~~ wherein:

the processing deletes a header from the electronic mail with the processed output not containing the deleted header.

110. An interface in accordance with claim 107 wherein:

the processing adds information to the information contained in the electronic mail and the identification of each RF receiver to receive information contained in electronic mail with the processed output containing the added information.

9 ~~111~~. An interface in accordance with claim 8 ~~110~~ wherein:

the added information is a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

10 ~~112~~. An interface in accordance with claim 9 ~~111~~ wherein:

the added information comprises a packet containing the destination to which the processed output is transmitted within the RF system to where broadcast occurs.

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11 ~~113.~~ An interface in accordance with claim 10 ~~112~~ wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted by the RF system.

12 ~~114.~~ An interface in accordance with claim 9 ~~87~~ wherein:

the processor controls performing of a security check on at least the information which is received by the at least one input to determine if at least the information contained in the electronic mail should be outputted by the at least one output for transmission and broadcast by the RF system.

13 ~~115.~~ An interface in accordance with claim 12 ~~114~~ wherein:

the security check is performed by a comparison of an identification of the receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of the receiver which is to receive the information matches one of the RF receivers in the RF system.

17 ~~116.~~ An interface in accordance with claim 14 ~~88~~ wherein:

the processing processes at least the information contained in the electronic mail to produce the processed output.

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18 17
~~117.~~ An interface in accordance with claim ~~116~~ wherein:

the processing deletes information from the electronic mail with the processed output not containing the deleted information.

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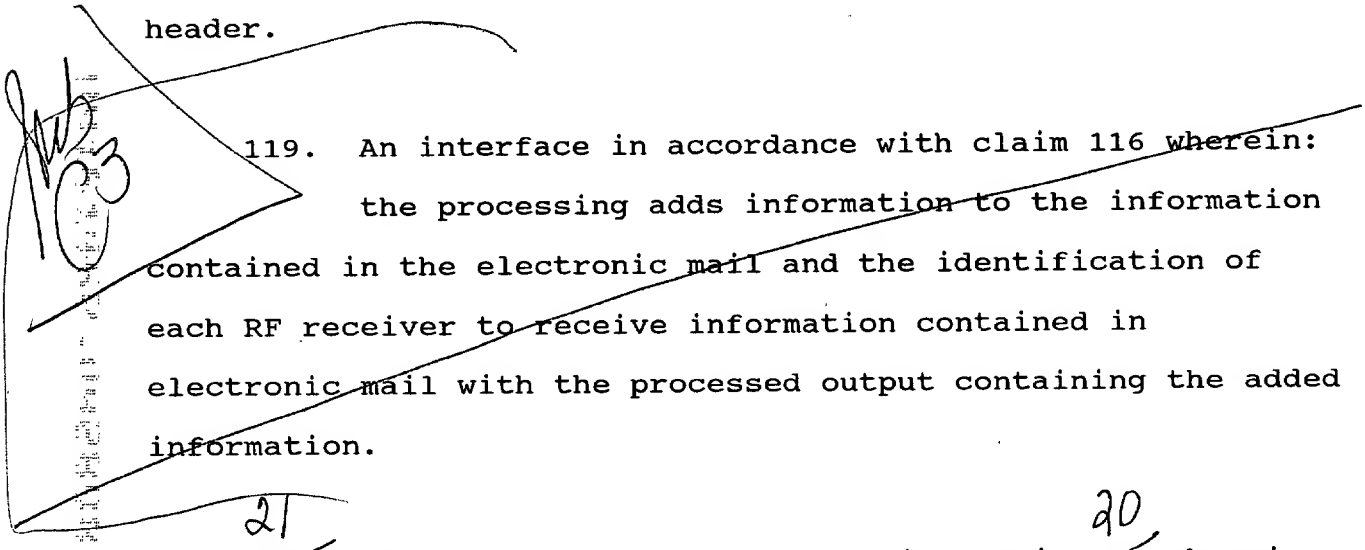
~~118.~~ An interface in accordance with claim ~~117~~ wherein:

the processing deletes a header from the electronic mail with the processed output not containing the deleted header.



119. An interface in accordance with claim 116 wherein:

the processing adds information to the information contained in the electronic mail and the identification of each RF receiver to receive information contained in electronic mail with the processed output containing the added information.

21 20
~~120.~~ An interface in accordance with claim ~~119~~ wherein:

the added information is a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

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~~121.~~ An interface in accordance with claim ~~120~~ wherein:

the added information comprises a packet containing the destination to which the processed output is transmitted within the RF system to where the broadcast occurs.

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~~122~~. An interface in accordance with claim ~~121~~ wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted by the RF system.

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~~123~~. An interface in accordance with claim ~~88~~ wherein:

the processor controls performing of a security check on at least the information which is received by the at least one input to determine if at least the information contained in the electronic mail should be outputted by the at least one output for transmission and broadcast by the RF system.

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~~124~~. An interface in accordance with claim ~~123~~ wherein:

the security check is performed by a comparison of an identification of the receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification number of the receiver which is to receive the information matches one of the RF receivers in the RF system.

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~~125~~. An interface in accordance with claim ~~89~~ wherein:

the processing processes at least the information contained in the electronic mail to produce the processed output.

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126. An interface in accordance with claim 125 wherein:

the processing deletes information from the electronic mail with the processed output not containing the deleted information.

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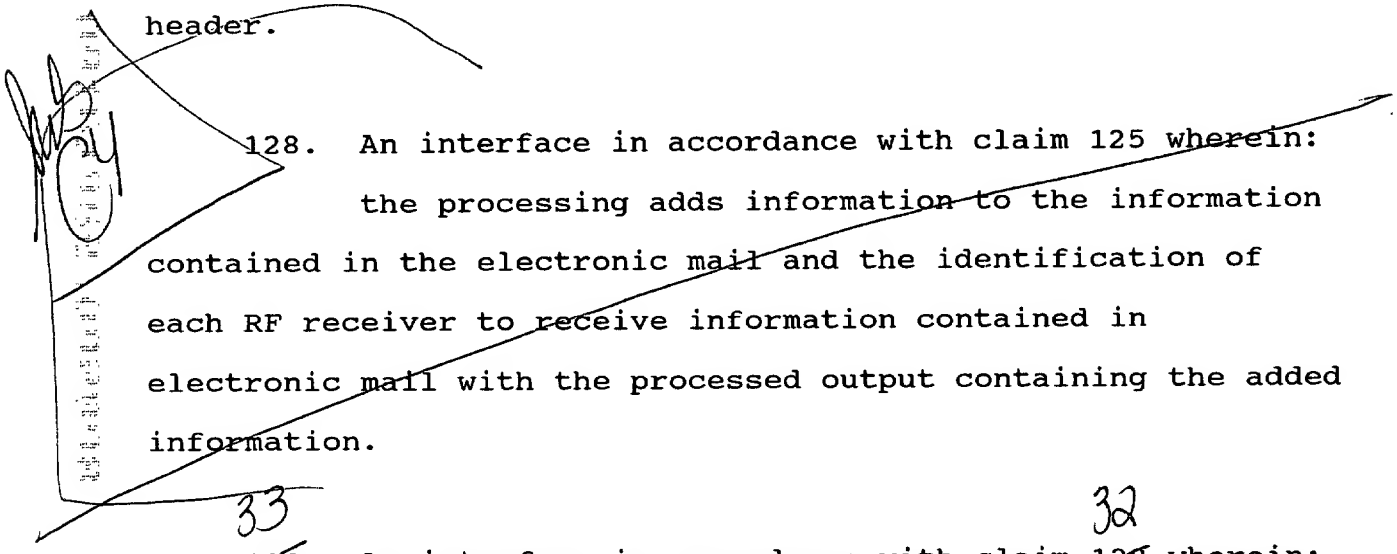
127. An interface in accordance with claim 126 wherein:

the processing deletes a header from the electronic mail with the processed output not containing the deleted header.



128. An interface in accordance with claim 125 wherein:

the processing adds information to the information contained in the electronic mail and the identification of each RF receiver to receive information contained in electronic mail with the processed output containing the added information.

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129. An interface in accordance with claim 128 wherein:

the added information is a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

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130. An interface in accordance with claim 129 wherein:

the added information comprises a packet containing the destination to which the processed output is transmitted within the RF system where the broadcast occurs.

35 ~~131~~. An interface in accordance with claim 34 ~~130~~ wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted by the RF system.

36 ~~132~~. An interface in accordance with claim 96 ~~89~~ wherein:

the processor controls performing of a security check on at least the information which is received by the at least one input to determine if at least the information contained in the electronic mail should be outputted by the at least one output for transmission and broadcast by the RF system.

37 ~~133~~. An interface in accordance with claim 36 ~~132~~ wherein:

the security check is performed by a comparison of an identification of the receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of the receiver which is to receive the information matches one of the RF receivers in the RF system.

39 ~~134~~. An interface in accordance with claim 38 ~~90~~ wherein:

the processing processes at least the information contained in the electronic mail to produce the processed output.

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~~135.~~ An interface in accordance with claim ~~134~~ wherein:

the processing deletes information from the electronic mail with the processed output not containing the deleted information.

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~~136.~~ An interface in accordance with claim ~~135~~ wherein:

the processing deletes a header from the electronic mail with the processed output not containing the deleted header.

~~137.~~ An interface in accordance with claim ~~134~~ wherein:

the processing adds information to the information contained in the electronic mail and the identification of each RF receiver to receive information contained in electronic mail with the processed output containing the added information.

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~~138.~~ An interface in accordance with claim ~~137~~ wherein:

the added information is a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

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~~139.~~ An interface in accordance with claim ~~138~~ wherein:

the added information comprises a packet containing a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

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45 ~~140.~~ 44 An interface in accordance with claim ~~139~~ wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted by the RF system.

46 ~~141.~~ 38 An interface in accordance with claim ~~90~~ wherein:

the processor controls performing of a security check on at least the information which is received by the at least one input to determine if at least the information contained in the electronic mail should be outputted by the at least one output for transmission and broadcast by the RF system.

47 ~~142.~~ 46 An interface in accordance with claim ~~141~~ wherein:

the security check is performed by a comparison of an identification of the receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of the receiver which is to receive the information matches one of the RF receivers in the RF system.

49 ~~143.~~ 48 An interface in accordance with claim ~~94~~ wherein:

the processing processes at least the information contained in the electronic mail to produce the processed output.

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144. An interface in accordance with claim 143 wherein:

the processing deletes information from the electronic mail with the processed output not containing the deleted information.

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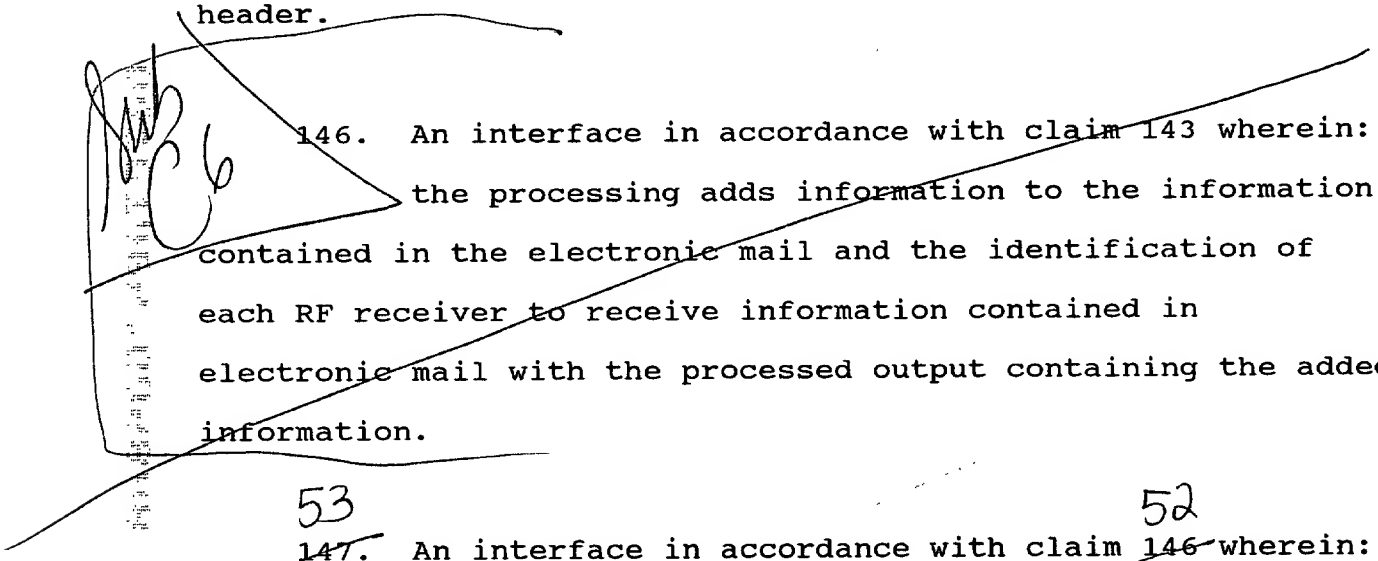
145. An interface in accordance with claim 144 wherein:

the processing deletes a header from the electronic mail with the processed output not containing the deleted header.



146. An interface in accordance with claim 143 wherein:

the processing adds information to the information contained in the electronic mail and the identification of each RF receiver to receive information contained in electronic mail with the processed output containing the added information.

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147. An interface in accordance with claim 146 wherein:

the added information is a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

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148. An interface in accordance with claim 147 wherein:

the added information comprises a packet containing the destination to which the processed output is transmitted within the RF system where broadcast occurs.

55 ~~149.~~ An interface in accordance with claim 54 ~~148~~ wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted by the RF system.

56 ~~150.~~ An interface in accordance with claim 48 ~~94~~ wherein:

the processor controls performing of a security check on at least the information which is received by the at least one input to determine if at least the information contained in the electronic mail should be outputted by the at least one output for transmission and broadcast by the RF system.

57 ~~151.~~ An interface in accordance with claim 56 ~~150~~ wherein:

the security check is performed by a comparison of an identification of the receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification number of the receiver which is to receive the information matches one of the RF receivers in the RF system.

77 58
~~152.~~ An interface in accordance with claim ~~98~~ wherein:

the processor controls performing of a security check on at least the information which is received by the at least one input to determine if at least the information contained in the electronic mail should be outputted by the at least one output for transmission and broadcast by the RF system.

78 77
~~153.~~ An interface in accordance with claim ~~152~~ wherein:

the security check is performed by a comparison of an identification of the receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of the receiver which is to receive the information matches one of the RF receiver in the RF system.

61 59
~~154.~~ An interface in accordance with claim ~~99~~ wherein:

the processor controls performing of a security check on at least the information which is received by the at least one input to determine if at least the information contained in the electronic mail should be outputted by the at least one output for transmission and broadcast by the RF system.

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~~155.~~ An interface in accordance with claim ~~154~~ wherein:

the security check is performed by a comparison of an identification of the receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification number of the receiver which is to receive the information matches one of the RF receivers in the RF system.

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~~156.~~ An interface in accordance with claim ~~100~~ wherein:

the processor controls performing of a security check on at least the information which is received by the at least one input to determine if at least the information contained in the electronic mail should be outputted by the at least one output for transmission and broadcast by the RF system.

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~~157.~~ An interface in accordance with claim ~~156~~ wherein:

the security check is performed by a comparison of an identification of the receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of the receiver which is to receive the information matches one of the RF receiver in the RF system.

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69 65
~~158.~~ An interface in accordance with claim ~~101~~ wherein:

the processor controls performing of a security check on at least the information which is received by the at least one input to determine if at least the information contained in the electronic mail should be outputted by the at least one output for transmission and broadcast by the RF system.

70 69
~~159.~~ An interface in accordance with claim ~~158~~ wherein:

the security check is performed by a comparison of an identification of the receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of the receiver which is to receive the information matches one of the RF receivers in the RF system.

71 66
~~160.~~ An interface in accordance with claim 102 wherein:

the processor controls performing of a security check on at least the information which is received by the at least one input to determine if at least the information contained in the electronic mail should be outputted by the at least one output for transmission and broadcast by the RF system.

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72 ~~161~~. An interface in accordance with claim 71 ~~160~~ wherein:

the security check is performed by a comparison of an identification of the receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of the receiver which is to receive the information matches one of the RF receiver in the RF system.

73 ~~162~~. An interface in accordance with claim 67 ~~103~~ wherein:

the processor controls performing of a security check on at least the information which is received by the at least one input to determine if at least the information contained in the electronic mail should be outputted by the at least one output for transmission and broadcast by the RF system.

74 ~~163~~. An interface in accordance with claim 73 ~~162~~ wherein:

the security check is performed by a comparison of an identification of the receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of the receiver which is to receive the information matches one of the RF receivers in the RF system.

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~~164.~~ An interface in accordance with claim ~~104~~ 68 wherein:

the processor controls performing of a security check on at least the information which is received by the at least one input to determine if at least the information contained in the electronic mail should be outputted by the at least one output for transmission and broadcast by the RF system.

76

~~165.~~ An interface in accordance with claim ~~164~~ 75 wherein:

the security check is performed by a comparison of an identification number of the receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of the receiver which is to receive the information matches one of the RF receiver in the RF system.

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~~166.~~ In a system comprising at least one communication system which transmits electronic mail containing information inputted from a plurality of processors connected to the at least one communication system, a RF system with the RF system having a plurality of receivers and at least one interface connecting the at least one communication system to the RF system with the information contained in the electronic mail being transmitted to one of the at least one interface and from the one interface through the RF system to least one of the plurality of RF receivers which receives broadcasts

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from the RF system containing the information contained in the electronic mail and an identification of the at least one of the plurality of RF receivers which receives the broadcasts, a method comprising:

combining the identification of each RF receiver to receive a broadcast of the information and the information to be broadcast to each identified RF receiver; and

transmitting at least the combined identification of each RF receiver to receive a broadcast of the information and the information to the one interface.

82 81

~~167.~~ A method in accordance with claim ~~166~~ wherein:

the combining of the identification of each RF receiver to receive a broadcast of the information and the information to be broadcast to each identified RF receiver occurs at one of the plurality of processors.

115 81

~~168.~~ A method in accordance with claim ~~166~~ wherein:

the combining of the identification of each RF receiver to receive a broadcast of the information and the information to be broadcast to the identified RF receiver occurs in one of the at least one communication system.

116 115

~~169.~~ A method in accordance with claim ~~168~~ wherein:

the combining occurs in an electronic mail system.

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183 81

~~170~~. A method in accordance with claim ~~166~~ wherein:

the combining occurs at the one interface.

218 81

~~171~~. A method in accordance with claim ~~166~~ wherein:

the one interface contains a processor; and

the processor processes at least the combined identification of a RF receiver and the information to be broadcast to the identified RF receiver and deletes information therefrom with the processed output not containing the deleted information.

83 82

~~172~~. A method in accordance with claim ~~167~~ wherein:

the one interface contains a processor; and

the processor processes at least the combined identification of a RF receiver and the information to be broadcast to the identified RF receiver and deletes information therefrom with the processed output not containing the deleted information.

151 115

~~173~~. A method in accordance with claim ~~168~~ wherein:

the one interface contains a processor; and

the processor processes at least the combined identification of a RF receiver and the information to be broadcast to the identified RF receiver and deletes information therefrom with the processed output not containing the deleted information.

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117 ~~174~~. A method in accordance with claim 116 ~~169~~ wherein:

the one interface contains a processor; and

the processor processes at least the combined identification of a RF receiver and the information to be broadcast to the identified RF receiver and deletes information therefrom with the processed output not containing the deleted information.

184 ~~175~~. A method in accordance with claim 183 ~~170~~ wherein:

the one interface contains a processor; and

the processor processes at least the combined identification of a RF receiver and the information to be broadcast to the identified RF receiver and deletes information therefrom with the processed output not containing the deleted information.

219 ~~176~~. A method in accordance with claim 218 ~~171~~ wherein:

the processing deletes a header from the electronic mail with the processed output not containing the deleted header.

84 ~~177~~. A method in accordance with claim 83 ~~172~~ wherein:

the processing deletes a header from the electronic mail with the processed output not containing the deleted header.

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152 151

178. A method in accordance with claim 173 wherein:

the processing deletes a header from the electronic mail with the processed output not containing the deleted header.

118 117

179. A method in accordance with claim 174 wherein:

the processing deletes a header from the electronic mail with the processed output not containing the deleted header.

185 184

180. A method in accordance with claim 175 wherein:

the processing deletes a header from the electronic mail with the processed output not containing the deleted header.

181. A method in accordance with claim 171 wherein:

the processing also adds information to the combined identification of the RF receiver and information to be broadcast to the RF receiver with the processed output containing the added information.

182. A method in accordance with claim 172 wherein:

the processing also adds information to the combined identification of the RF receiver and information to be broadcast to the RF receiver with the processed output containing the added information.

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183. A method in accordance with claim 173 wherein:

the processing also adds information to the combined identification of the RF receiver and information to be broadcast to the RF receiver with the processed output containing the added information.

184. A method in accordance with claim 174 wherein:

the processing also adds information to the combined identification of the RF receiver and information to be broadcast to the RF receiver with the processed output containing the added information.

185. A method in accordance with claim 175 wherein:

the processing also adds information to the combined identification of the RF receiver and information to be broadcast to the RF receiver with the processed output containing the added information.

186. A method in accordance with claim 176 wherein:

the processing also adds information to the combined identification of the RF receiver and information to be broadcast to the RF receiver with the processed output containing the added information.

187. A method in accordance with claim 177 wherein:

the processing also adds information to the combined identification of the RF receiver and information to be broadcast to the RF receiver with the processed output containing the added information.

188. A method in accordance with claim 178 wherein:

the processing also adds information to the combined identification of the RF receiver and information to be broadcast to the RF receiver with the processed output containing the added information.

189. A method in accordance with claim 179 wherein:

the processing also adds information to the combined identification of the RF receiver and information to be broadcast to the RF receiver with the processed output containing the added information.

190. A method in accordance with claim 180 wherein:

the processing also adds information to the combined identification of the RF receiver and information to be broadcast to the RF receiver with the processed output containing the added information.

222 ~~191~~. A method in accordance with claim 220 ~~181~~ wherein:

the added information is a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

87 ~~192~~. A method in accordance with claim 85 ~~182~~ wherein:

the added information is a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

155 ~~193~~. A method in accordance with claim 153 ~~183~~ wherein:

the added information is a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

121 ~~194~~. A method in accordance with claim 119 ~~184~~ wherein:

the added information is a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

188 ~~195~~. A method in accordance with claim 186 ~~185~~ wherein:

the added information is a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

223 221
~~196.~~ A method in accordance with claim ~~186~~ wherein:

the added information is a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

88 86
~~197.~~ A method in accordance with claim ~~187~~ wherein:

the added information is a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

156 154
~~198.~~ A method in accordance with claim ~~188~~ wherein:

the added information is a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

122 120
~~199.~~ A method in accordance with claim ~~189~~ wherein:

the added information is a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

189 187
~~200.~~ A method in accordance with claim ~~190~~ wherein:

the added information is a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

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224 222

201. A method in accordance with claim 191 wherein:

the added information comprises a packet containing the destination to which the processed output is transmitted within the RF system where the broadcast occurs.

89 87

202. A method in accordance with claim 192 wherein:

the added information comprises a packet containing the destination to which the processed output is transmitted within the RF system where the broadcast occurs.

157 155

203. A method in accordance with claim 193 wherein:

the added information comprises a packet containing the destination to which the processed output is transmitted within the RF system where the broadcast occurs.

123 121

204. A method in accordance with claim 194 wherein:

the added information comprises a packet containing the destination to which the processed output is transmitted within the RF system where the broadcast occurs.

190 188

205. A method in accordance with claim 195 wherein:

the added information comprises a packet containing the destination to which the processed output is transmitted within the RF system where the broadcast occurs.

225 223

~~206.~~ A method in accordance with claim ~~196~~ wherein:

the added information comprises a packet containing the destination to which the processed output is transmitted within the RF system where the broadcast occurs.

90 88

~~207.~~ A method in accordance with claim ~~197~~ wherein:

the added information comprises a packet containing the destination to which the processed output is transmitted within the RF system where the broadcast occurs.

158 156

~~208.~~ A method in accordance with claim ~~198~~ wherein:

the added information comprises a packet containing the destination to which the processed output is transmitted within the RF system where the broadcast occurs.

124 122

~~209.~~ A method in accordance with claim ~~199~~ wherein:

the added information comprises a packet containing the destination to which the processed output is transmitted within the RF system where the broadcast occurs.

191 189

~~210.~~ A method in accordance with claim ~~200~~ wherein:

the added information comprises a packet containing the destination to which the processed output is transmitted within the RF system where the broadcast occurs.

226 224

~~211.~~ A method in accordance with claim ~~201~~ wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted by the RF system.

91 89

~~212.~~ A method in accordance with claim ~~202~~ wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted by the RF system.

159 157

~~213.~~ A method in accordance with claim ~~203~~ wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted by the RF system.

125 123

~~214.~~ A method in accordance with claim ~~204~~ wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted in the RF system.

192 190

~~215.~~ A method in accordance with claim ~~205~~ wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted in the RF system.

93

227 225
~~216.~~ A method in accordance with claim ~~206~~ wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted in the RF system.

92 90
~~217.~~ A method in accordance with claim ~~207~~ wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted in the RF system.

160 158
~~218.~~ A method in accordance with claim ~~208~~ wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted in the RF system.

126 124
~~219.~~ A method in accordance with claim ~~209~~ wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted in the RF system.

193 191
~~220.~~ A method in accordance with claim ~~210~~ wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted in the RF system.

94

181 81

~~221.~~ A method in accordance with claim ~~166~~ wherein:

the one interface contains a processor; and

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

182 181

~~222.~~ A method in accordance with claim ~~221~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of each identification of the receiver which is to receive the information matches one of the RF receivers in the RF system.

93 82

~~223.~~ A method in accordance with claim ~~167~~ wherein:

the one interface contains a processor; and

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

95

94 93

~~224.~~ A method in accordance with claim ~~223~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

127 115

~~225.~~ A method in accordance with claim ~~168~~ wherein:

the one interface contains a processor; and

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

128 127

~~226.~~ A method in accordance with claim ~~225~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

96

129 116
~~227~~. A method in accordance with claim ~~169~~ wherein:

the one interface contains a processor; and

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

130 129
~~228~~. A method in accordance with claim ~~227~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

194 183
~~229~~. A method in accordance with claim ~~170~~ wherein:

the one interface contains a processor; and

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

195 194
~~230~~. A method in accordance with claim ~~229~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

228 218
~~231~~. A method in accordance with claim ~~171~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

229 228
~~232~~. A method in accordance with claim ~~231~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

95 ~~233~~. A method in accordance with claim 83 ~~172~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

96 ~~234~~. A method in accordance with claim 95 ~~233~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

161 ~~235~~. A method in accordance with claim 151 ~~173~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

162 ~~236~~. A method in accordance with claim 161 ~~235~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

131 ~~237~~. A method in accordance with claim 117 ~~174~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

132 ~~238~~. A method in accordance with claim 131 ~~237~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

100

196 184
~~239~~. A method in accordance with claim ~~175~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

197 196
~~240~~. A method in accordance with claim ~~239~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

230 219
~~241~~. A method in accordance with claim ~~176~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

231 230

~~242.~~ A method in accordance with claim ~~241~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

97 84

~~243.~~ A method in accordance with claim ~~177~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

98 97

~~244.~~ A method in accordance with claim ~~243~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

102

163 ~~245.~~ 152 A method in accordance with claim ~~178~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

164 ~~246.~~ 163 A method in accordance with claim ~~245~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

133 ~~247.~~ 118 A method in accordance with claim ~~179~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

103

134 ~~248.~~ A method in accordance with claim ~~247~~ 133 wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

198 ~~249.~~ A method in accordance with claim ~~180~~ 185 wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

199 ~~250.~~ A method in accordance with claim ~~249~~ 198 wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

104

232 ~~251~~. A method in accordance with claim 220 ~~181~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

233 ~~252~~. A method in accordance with claim 232 ~~251~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

99 ~~253~~. A method in accordance with claim 85 ~~182~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

100 99
~~254.~~ A method in accordance with claim ~~253~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

165 153
~~255.~~ A method in accordance with claim ~~183~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

166 165
~~256.~~ A method in accordance with claim ~~255~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

106

135 119
~~257~~. A method in accordance with claim ~~184~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

136 135
~~258~~. A method in accordance with claim ~~257~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

200 186
~~259~~. A method in accordance with claim ~~185~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

107

201 ~~260.~~ A method in accordance with claim 200 ~~259~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

234 ~~261.~~ A method in accordance with claim 221 ~~186~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

235 ~~262.~~ A method in accordance with claim 234 ~~261~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

101 ~~263.~~ A method in accordance with claim 86 ~~187~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

102 ~~264.~~ A method in accordance with claim 101 ~~263~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

167 ~~265.~~ A method in accordance with claim 154 ~~188~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

109

168 ~~266.~~ A method in accordance with claim 167 ~~265~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

137 ~~267.~~ A method in accordance with claim 120 ~~189~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

138 ~~268.~~ A method in accordance with claim 137 ~~267~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

110

202

~~269~~. A method in accordance with claim 187 ~~190~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

203

~~270~~. A method in accordance with claim 202 ~~269~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

236

~~271~~. A method in accordance with claim 222 ~~191~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

111

237 236

~~272.~~ A method in accordance with claim ~~271~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

103 87

~~273~~. A method in accordance with claim ~~192~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

104 103

~~274~~. A method in accordance with claim ~~273~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

112

169 155
~~275.~~ A method in accordance with claim ~~193~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

170 169
~~276.~~ A method in accordance with claim ~~275~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

139 121
~~277~~. A method in accordance with claim ~~194~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

113

140 139
~~278~~. A method in accordance with claim ~~277~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

204 188
~~279~~. A method in accordance with claim ~~195~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

205 204
~~280~~. A method in accordance with claim ~~279~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

114

238 ~~281~~. A method in accordance with claim ~~196~~ 223 wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

239 ~~282~~. A method in accordance with claim ~~281~~ 238 wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

105 ~~283~~. A method in accordance with claim ~~197~~ 88 wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

106 105
~~284.~~ A method in accordance with claim ~~283~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

171 156
~~285.~~ A method in accordance with claim ~~198~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

172 171
~~286.~~ A method in accordance with claim ~~285~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

116

141 122
~~287.~~ A method in accordance with claim ~~199~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

142 141
~~288.~~ A method in accordance with claim ~~287~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

206 189
~~289.~~ A method in accordance with claim ~~200~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

117

207 206
~~290.~~ A method in accordance with claim ~~289~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

240 224
~~291.~~ A method in accordance with claim ~~201~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

241 240
~~292.~~ A method in accordance with claim ~~291~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

118

107 89
~~293~~. A method in accordance with claim ~~202~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

108 107
~~294~~. A method in accordance with claim ~~293~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

173 157
~~295~~. A method in accordance with claim ~~203~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

119

174 173
~~296.~~ A method in accordance with claim ~~295~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

143 123
~~297.~~ A method in accordance with claim ~~204~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

144 143
~~298.~~ A method in accordance with claim ~~297~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

120

208 ~~299~~. A method in accordance with claim 190 ~~205~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

209 ~~300~~. A method in accordance with claim 208 ~~299~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

210 ~~301~~. A method in accordance with claim 208 ~~299~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

211 ~~302.~~ A method in accordance with claim 210 ~~301~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

109 ~~303.~~ A method in accordance with claim 90 ~~207~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

110 ~~304.~~ A method in accordance with claim 109 ~~303~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

175 158
~~305~~. A method in accordance with claim ~~208~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

176 175
~~306~~. A method in accordance with claim ~~305~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

145 124
~~307~~. A method in accordance with claim ~~209~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

146 145
~~308~~. A method in accordance with claim ~~307~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

212 191
~~309~~. A method in accordance with claim ~~210~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

213 212
~~310~~. A method in accordance with claim ~~309~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

124

242 226
311. A method in accordance with claim 211 wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

243 242
312. A method in accordance with claim 311 wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

111 91
313. A method in accordance with claim 212 wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

112
314. A method in accordance with claim 313 wherein:

111

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

177
315. A method in accordance with claim 213 wherein:

159

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

178
316. A method in accordance with claim 315 wherein:

177

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

126

147 ~~317~~. A method in accordance with claim ~~214~~ 125 wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

148 ~~318~~. A method in accordance with claim ~~317~~ 147 wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

214 ~~319~~. A method in accordance with claim ~~215~~ 192 wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

127

215 214

~~326~~. A method in accordance with claim ~~319~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

244 227

~~321~~. A method in accordance with claim ~~216~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

245 244

~~322~~. A method in accordance with claim ~~321~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

113 ~~323~~. A method in accordance with claim 92 ~~217~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

114 ~~324~~. A method in accordance with claim 113 ~~323~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

179 ~~325~~. A method in accordance with claim 160 ~~218~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

180 ~~326~~. A method in accordance with claim 179 ~~325~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

149 ~~327~~. A method in accordance with claim 126 ~~219~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

150 ~~328~~. A method in accordance with claim 149 ~~327~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

130

216 193
~~329~~. A method in accordance with claim ~~221~~ wherein:

the processor performs a security check to determine if the combined identification of each RF receiver to receive the broadcast of the information and the information should be outputted from the one interface to the RF system.

217 216
~~330~~. A method in accordance with claim ~~329~~ wherein:

the security check is performed by a comparison of an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor permitting the processed output when a match of the identification of each receiver which is to receive the information matches one of the RF receivers in the RF system.

246
~~331~~. In a system comprising a communication system which transmits electronic mail containing information, with the electronic mail being inputted to the communication system from a plurality of processors, a RF system and an interface connecting the communication system to the RF system with the information contained in the electronic mail and an identification of a RF device in the RF system being transmitted from the interface to the RF system and broadcast by the RF system to an identified RF device, the identified RF device comprising:

(31)

a RF receiver, which receives the information when the identification of the device is detected in a broadcast by the RF system to the RF receiver; and

a memory, coupled to the RF receiver, which stores the information received by the RF receiver contained in the electronic mail inputted to the communication system.

247 246
~~332~~. The RF device in accordance with claim ~~331~~ further comprising:

a processor, coupled to the memory, which after the information has been outputted from the memory, processes the information.

248 247
~~333~~. The RF device in accordance with claim ~~332~~ further comprising:

at least one application program, executed by the processor, which processes the information.

334. The RF device in accordance with ~~claim~~ 330 further ~~comprising~~:

a display which displays the information.

132

250

~~335~~. A method of transmitting information contained in electronic mail with a communication system and a RF system with the RF system broadcasting the information to a RF receiver with the RF system being connected to the communication system by at least one interface comprising:

inputting electronic mail from a processor to the communication system with the electronic mail including at least the information to be broadcast to the RF receiver;

receiving with one of the at least one interface at least the information to be broadcast to the RF receiver;

transmitting a processed output including at least the information and an identification of the RF receiver to receive the information from the one interface to a broadcast location in the RF system;

broadcasting the information and the identification of the RF receiver with the RF system from the broadcast location; and

receiving the broadcast information and the identification of the RF receiver with the RF receiver.

133

251 ~~336~~. A method in accordance with claim 250 ~~335~~ wherein:

the electronic mail inputted by the processor to the communication system comprises the information, the identification of the RF receiver and an address of the one interface; and

the communication system transmits the electronic mail to the one interface.

272 ~~337~~. A method in accordance with claim 250 ~~335~~ wherein:

the communication system combines the information and the identification of RF receiver and transmits the combined information and the identification of the RF receiver to the one interface.

289 ~~338~~. A method in accordance with claim 250 ~~335~~ wherein:

the one interface comprises a processor; and

the processor processes information received by the one interface and deletes information from the received information with the processed output not containing the deleted information.

252 ~~339~~. A method in accordance with claim 251 ~~336~~ wherein:

the one interface comprises a processor; and

the processor processes information received by the one interface and deletes information from the received information with the processed output not containing the deleted information.

273 272

~~340.~~ A method in accordance with claim ~~337~~ wherein:

the one interface comprises a processor; and

the processor processes information received by the one interface and deletes information from the received information with the processed output not containing the deleted information.

290 289

~~341.~~ A method in accordance with claim ~~338~~ wherein:

the processing deletes a header from information received by the one interface with the processed output not containing the deleted header.

253 252

~~342.~~ A method in accordance with claim ~~339~~ wherein:

the processing deletes a header from information received by the one interface with the processed output not containing the deleted header.

274 273

~~343.~~ A method in accordance with claim ~~340~~ wherein:

the processing deletes a header from information received by the one interface with the processed output not containing the deleted header.

344. A method in accordance with claim 338 wherein:

the processor also adds information to the information received by the one interface with the processed output containing the added information.

135

345. A method in accordance with claim 339 wherein:

the processor also adds information to the information received by the one interface with the processed output containing the added information.

346. A method in accordance with claim 340 wherein:

the processor also adds information to the information received by the one interface with the processed output containing the added information.

347. A method in accordance with claim 341 wherein:

the processor also adds information to the information received by the one interface with the processed output containing the added information.

348. A method in accordance with claim 342 wherein:

the processor also adds information to the information received by the one interface with the processed output containing the added information.

349. A method in accordance with claim 343 wherein:

the processor also adds information to the information received by the one interface with the processed output containing the added information.

293 291

~~350~~. A method in accordance with claim ~~344~~ wherein:

the added information is a packet.

294 ~~351~~. A method in accordance with claim 293 ~~350~~ wherein:

at least part of the packet is transmitted by the RF system and broadcast to the RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

256 ~~352~~. A method in accordance with claim 254 ~~345~~ wherein:

the added information is a packet.

257 ~~353~~. A method in accordance with claim 256 ~~352~~ wherein:

at least part of the packet is transmitted by the RF system and broadcast to the RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

277 ~~354~~. A method in accordance with claim 275 ~~346~~ wherein:

the added information is a packet.

278 ~~355~~. A method in accordance with claim 277 ~~354~~ wherein:

at least part of the packet is transmitted by the RF system and broadcast to the RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

295 ~~356~~. A method in accordance with claim 292 ~~347~~ wherein:

the added information is a packet.

296 295
~~257~~. A method in accordance with claim ~~356~~ wherein:

at least part of the packet is transmitted by the RF system and broadcast to the RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

258 255
~~358~~. A method in accordance with claim ~~348~~ wherein:

the added information is a packet.

259 258
~~359~~. A method in accordance with claim ~~358~~ wherein:

at least part of the packet is transmitted by the RF system and broadcast to the RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

279 276
~~360~~. A method in accordance with claim ~~349~~ wherein:

the added information is a packet.

260 259
~~361~~. A method in accordance with claim ~~359~~ wherein:

at least part of the packet is transmitted by the RF system and broadcast to the RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

~~362~~ 308. A method in accordance with claim ~~335~~ 250 wherein:

the one interface comprises a processor; and

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

~~363~~ 261. A method in accordance with claim ~~336~~ 251 wherein:

the one interface comprises a processor; and

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

280 ~~364.~~ A method in accordance with claim 272 ~~337~~ wherein:

the one interface comprises a processor; and

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

297 ~~365.~~ A method in accordance with claim 289 ~~338~~ wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

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262 ~~366~~. A method in accordance with claim 252 ~~339~~ wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

281 ~~367~~. A method in accordance with claim 273 ~~340~~ wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

141

~~368~~ 298. A method in accordance with claim ~~341~~ 290 wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

~~369~~ 263. A method in accordance with claim ~~342~~ 253 wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

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282 ~~370.~~ A method in accordance with claim ~~343~~ 274 wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

299 ~~371.~~ A method in accordance with claim ~~344~~ 291 wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

264 ~~372~~. A method in accordance with claim 254 ~~345~~ wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

283 ~~373~~. A method in accordance with claim 275 ~~346~~ wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

144

300 ~~374.~~ A method in accordance with claim 292 ~~347~~ wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

265 ~~375.~~ A method in accordance with claim 255 ~~348~~ wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

~~376~~ 284. A method in accordance with claim ~~349~~ 276 wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

~~377~~ 301. A method in accordance with claim ~~350~~ 293 wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

~~378~~ 302. A method in accordance with claim ~~351~~ 294 wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

~~379~~ 266. A method in accordance with claim ~~352~~ 256 wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

147

267 ~~380~~. A method in accordance with claim 257 ~~353~~ wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

285 ~~381~~. A method in accordance with claim 277 ~~354~~ wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

148

286 ~~382.~~ A method in accordance with claim 278 ~~355~~ wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

303 ~~383.~~ A method in accordance with claim 295 ~~356~~ wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

149

304 296
~~384~~. A method in accordance with claim ~~357~~ wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

268 258
~~385~~. A method in accordance with claim ~~358~~ wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

269 ~~386~~. A method in accordance with claim ~~359~~ 259 wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

287 ~~387~~. A method in accordance with claim ~~360~~ 279 wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

270 260
388. A method in accordance with claim 361 wherein:

the processor processes the information received by the one interface and performs a security check on information received by the one interface by performing a comparison of the identification of the RF receiver with permissible identifications of RF receivers in the RF system with the processor providing a processed output when a match of the identification of the RF receiver to receive the information matches one of the RF receivers in the RF system.

310 250
389. A method in accordance with claim 335 further comprising:

storing the information received by the RF receiver in a memory; and

processing the information stored in the memory with an application program executed by a processor coupled to the RF memory.

271 251
390. A method in accordance with claim 336 further comprising:

storing the information received by the RF receiver in a memory; and

processing the information stored in the memory with an application program executed by a processor coupled to the RF memory.

288 272
~~391~~. A method in accordance with claim ~~337~~ further comprising:

storing the information received by the RF receiver in a memory; and

processing the information stored in the memory with an application program executed by a processor coupled to the RF memory.

305 290
~~392~~. A method in accordance with claim ~~341~~ further comprising:

storing the information received by the RF receiver in a memory; and

processing the information stored in the memory with an application program executed by a processor coupled to the RF memory.

306 291
~~393~~. A method in accordance with claim ~~344~~ further comprising:

storing the information received by the RF receiver in a memory; and

processing the information stored in the memory with an application program executed by a processor coupled to the RF memory.

309 308

~~394~~. A method in accordance with claim ~~362~~ further comprising:

storing the information received by the RF receiver in a memory; and

processing the information stored in the memory with an application program executed by a processor coupled to the RF memory.

307 297

~~395~~. A method in accordance with claim ~~365~~ further comprising:

storing the information received by the RF receiver in a memory; and

processing the information stored in the memory with an application program executed by a processor coupled to the RF memory.

396. In a system comprising a communication system which transmits alphanumeric information, inputted in a digital format to the communication system from a processor which is processed by a modulator in the digital format to produce a modulated transmission which is transmitted by the communication system, and a RF system having a plurality of RF receivers which receive broadcasts from at least one broadcast location in the RF system, each broadcast including information contained within the alphanumeric information and an identification of each RF receiver to receive the broadcast, an interface comprising:

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at least one input which receives the modulated transmission containing at least the alphanumeric information;

at least one output which outputs a processed output, the processed output including the alphanumeric information and the identification of each RF receiver which is to receive the broadcast alphanumeric information; and

a processor, coupled to the at least one input and to the at least one output, which processes the alphanumeric information to produce the processed output outputted by the at least one output.

397. An interface in accordance with claim 396 wherein:

the processing processes at least the alphanumeric information to produce the processed output.

398. An interface in accordance with claim 397 wherein:

the processing of the alphanumerical information adds information to the alphanumerical information and the identification of each RF receiver to receive the alphanumerical information with the processed output containing the added information.

399. An interface in accordance with claim 397 wherein:

the identification of each RF receiver is inputted by the processor and;

the processing of the alphanumerical information adds information to the alphanumerical information with the processed output containing the added information.

400. An interface in accordance with claim 398 wherein:

the added information is a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

401. An interface in accordance with claim 399 wherein:

the added information is a destination to which the processed output is transmitted within the RF system where broadcast occurs.

402. An interface in accordance with claim 399 wherein:

the added information comprises a packet containing a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

403. An interface in accordance with claim 400 wherein:

the added information comprises a packet containing a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

404. An interface in accordance with claim 401 wherein:

the added information comprises a packet containing a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

405. An interface in accordance with claim 402 wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted by the RF system.

406. An interface in accordance with claim 403 wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted by the RF system.

407. An interface in accordance with claim 404 wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted by the RF system.

408. An interface in accordance with claim 396 wherein:

a security check is performed by the processor comparing an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor providing the processed output when a match of the identification of each RF receiver which is to receive the information matches one of the RF receivers in the RF system.

409. An interface in accordance with claim 397 wherein:

a security check is performed by the processor comparing an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor providing the processed output when a match of the identification of each RF receiver which is to receive the information matches one of the RF receivers in the RF system.

410. An interface in accordance with claim 398 wherein:

a security check is performed by the processor comparing an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor providing the processed output when a match of the identification of each RF receiver which is to receive the information matches one of the RF receivers in the RF system.

411. An interface in accordance with claim 399 wherein:

a security check is performed by the processor comparing an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor providing the processed output when a match of the identification of each RF receiver which is to receive the information matches one of the RF receivers in the RF system.

412. An interface in accordance with claim 400 wherein:

a security check is performed by the processor comparing an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor providing the processed output when a match of the identification of each RF receiver which is to receive the information matches one of the RF receivers in the RF system.

413. An interface in accordance with claim 401 wherein:

a security check is performed by the processor comparing an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor providing the processed output when a match of the identification of each RF receiver which is to receive the information matches one of the RF receivers in the RF system.

414. An interface in accordance with claim 402 wherein:

a security check is performed by the processor comparing an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor providing the processed output when a match of the identification of each RF receiver which is to receive the information matches one of the RF receivers in the RF system.

415. An interface in accordance with claim 403 wherein:

a security check is performed by the processor comparing an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor providing the processed output when a match of the identification of each RF receiver which is to receive the information matches one of the RF receivers in the RF system.

416. An interface in accordance with claim 404 wherein:

a security check is performed by the processor comparing an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor providing the processed output when a match of the identification of each RF receiver which is to receive the information matches one of the RF receivers in the RF system.

417. An interface in accordance with claim 405 wherein:

a security check is performed by the processor comparing an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor providing the processed output when a match of the identification of each RF receiver which is to receive the information matches one of the RF receivers in the RF system.

418. An interface in accordance with claim 406 wherein:

a security check is performed by the processor comparing an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor providing the processed output when a match of the identification of each RF receiver which is to receive the information matches one of the RF receivers in the RF system.

419. An interface in accordance with claim 407 wherein:

a security check is performed by the processor comparing an identification of each receiver, which is to receive the information, with actual identifications of RF receivers in the RF system with the processor providing the processed output when a match of the identification of each RF receiver which is to receive the information matches one of the RF receivers in the RF system.

420. A method of transmitting information comprising:

inputting alphanumeric information in a digital format with a processor;

processing the inputted alphanumeric information with a modulator which converts the alphanumeric information into a modulated transmission encoding the alphanumeric information;

transmitting the modulated transmission with a communication system to an interface;

processing the modulated transmission with a processor at the interface to produce a processed output which includes the information and an identification of a RF receiver in a RF system which is to receive a broadcast of the alphanumerical information and an identification of the RF receiver;

transmitting the alpanumerical information and the identification of the RF receiver with the RF system to a broadcast location; and

broadcasting the alphanumeric information and the identification of the RF receiver to the RF receiver.

421. A method in accordance with claim 420 wherein:

the processing processes at least the alphanumeric information to produce the processed output.

422. A method in accordance with claim 421 wherein:

the processing of the alphanumeric information adds information to the alphanumeric information and the identification of the RF receiver to receive the alphanumerical information with the processed output containing the added information.

423. A method in accordance with claim 421 wherein:

the identification of the RF receiver is inputted by the processor and;

the processing of the alphanumerical information adds information to the alphanumerical information with the processed output containing the added information.

424. A method in accordance with claim 422 wherein:

the added information is a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

425. A method in accordance with claim 423 wherein:

the added information is a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

426. A method in accordance with claim 423 wherein:

the added information comprises a packet containing a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

427. A method in accordance with claim 424 wherein:

the added information comprises a packet containing a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

428. A method in accordance with claim 425 wherein:

the added information comprises a packet containing a destination to which the processed output is transmitted within the RF system where the broadcast occurs.

429. A method in accordance with claim 426 wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted by the RF system.

430. A method in accordance with claim 427 wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted by the RF system.

431. A method in accordance with claim 428 wherein:

the packet also contains a destination of a switch in the RF system to which at least part of the packet is transmitted by the RF system.

432. A method in accordance with claim 420 wherein:

a security check is performed by the processor comparing an identification of the RF receiver, which is to receive the alphanumeric information, with actual identifications of RF receivers in the RF system with the processor at the interface providing the processed output when a match of the identification of the RF receiver which is to receive the alphanumeric information matches one of the RF receivers in the RF system.

433. A method in accordance with claim 420 wherein:

the alphanumeric information is stored in a memory coupled to the RF receiver.

434. A method in accordance with claim 433 wherein:

another processor, coupled to the memory, processes the alphanumeric information stored in the memory.

435. A method in accordance with claim 420 wherein:

the broadcast location where the alphanumeric information and the identification of the RF receiver is broadcast to the RF receiver is determined by the RF system processing information stored in the RF system.

311

436. A method of transmitting and distributing inputted information through a distributed system, comprising:

originating electronic mail from a processor in a communication system which electronic mail includes (a) an address of an interface which connects the communication system to a RF system to which the electronic mail is delivered by the communication system in response to the address in the electronic mail, (b) an identification of a RF receiver in the RF system to receive the inputted information, and (c) the inputted information to be delivered to the RF receiver;

receiving the originated electronic mail at the interface which connects the communication system to the RF system;

adding information to the inputted information and the identification of the at least one designated RF receiver to facilitate transmission of the inputted information and the identification to the RF receiver;

broadcasting the inputted information and the identification of the RF receiver from at least one broadcast location to the RF receiver;

155

receiving the broadcasted inputted information and the identification of the RF receiver with the RF receiver; and

storing the received inputted broadcast information in a memory and processing the information stored in the memory with an application program executed by another processor coupled to the memory.

312 311
~~437~~. A method in accordance with claim ~~436~~ wherein:

a header, added by the processor in the communication system, is deleted from the electronic mail prior to broadcasting of the inputted information and the identification of the RF receiver.

313 311
~~438~~. A method in accordance with claim ~~436~~ wherein:

the identification of the RF receiver is compared with permissible identification numbers in the RF system to determine if the inputted information and the identification of the RF receiver should be transmitted by the RF system to the RF receiver.

314 313
~~439~~. A method in accordance with claim ~~438~~ wherein:

a header, added by the processor in the communication system, is deleted from the electronic mail prior to broadcasting of the inputted information and the identification of the RF receiver to the RF receiver.

315 311
~~440~~. A method in accordance with claim ~~436~~ wherein:

the inputted information and the identification of the RF receiver are transmitted by the RF system and broadcast to RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

316 312
~~441~~. A method in accordance with claim ~~437~~ wherein:

the inputted information and the identification of the RF receiver are transmitted by the RF system and broadcast to RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

317 313
~~442~~. A method in accordance with claim ~~438~~ wherein:

the inputted information and the identification of the RF receiver are transmitted by the RF system and broadcast to RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

318 314
~~443~~. A method in accordance with claim ~~439~~ wherein:

the inputted information and the identification of the RF receiver are transmitted by the RF system and broadcast to RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

3/19 ~~444~~. A method of transmitting and distributing inputted information through a communication system and an RF system, comprising:

transmitting electronic mail from a processor in the communication system, which electronic mail includes (a) an address in the communication system of an interface to which the electronic mail is delivered by the communication system in response to the address in the electronic mail, (b) an identification of a RF receiver in the RF system to receive the inputted information, and (c) the information to be received by the RF receiver;

receiving the transmitted electronic mail at the interface and transmitting at least the inputted information and the identification of the RF receiver to the RF system;

broadcasting the inputted information and the identification of the RF receiver with the RF system;

receiving the inputted information and the identification of the RF receiver with the RF receiver; and

storing the received inputted broadcast information in a memory and processing the information stored in the memory with an application program executed by another processor coupled to the memory.

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320 ~~445.~~ A method in accordance with claim 319 ~~444~~ wherein: a header, added by the processor in the communication system, is deleted from the electronic mail prior to broadcasting of the inputted information and the identification of the RF receiver.

321 ~~446.~~ A method in accordance with claim 319 ~~444~~ wherein: the identification of the RF receiver is compared with permissible identification numbers in the RF system to determine if the inputted information and the identification of the RF receiver should be transmitted by the RF system to the RF receiver.

322 ~~447.~~ A method in accordance with claim 321 ~~446~~ wherein: a header, added by the processor in the communication system, is deleted from the electronic mail prior to broadcasting of the inputted information and the identification of the RF receiver to the RF receiver.

323 ~~448.~~ A method in accordance with claim 319 ~~444~~ wherein: the inputted information and the identification of the RF receiver are transmitted by the RF system and broadcast to RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

326

~~449.~~ In a system for transmitting and distributing inputted information, contained in electronic mail originating at a processor in a communication system, through a RF system which electronic mail includes (a) an address in the communication system to which the electronic mail is delivered by the communication system in response to the address in the communication system, (b) an identification of a RF receiver in the RF system to receive the inputted information and (c) the inputted information to be received by the RF receiver, the method comprising:

providing an interface connecting the communication system to the RF system which is the address in the communication system to which electronic mail is delivered by the communication system;

processing the electronic mail after being received at the interface from the communication system and transmitting at least the inputted information and the identification of the RF receiver to the RF system;

transmitting the identification of the at least one RF receiver and the inputted information to at least one broadcast location in the RF system;

broadcasting the inputted information and the identification of the RF receiver from the at least one broadcast location to the RF receiver; and

storing the received inputted information in a memory and processing the information stored in the memory

with an application program executed by another processor coupled to the memory.

327 326

~~450.~~ A method in accordance with claim ~~449~~ wherein:

the identification of the RF receiver to which the inputted information and the identification of the RF receiver is to be broadcasted is verified to determine if the inputted information and the identification of the RF receiver should be transmitted by the RF system to the RF receiver.

328 326

~~451.~~ A method in accordance with claim ~~449~~ wherein:

a header is deleted from the electronic mail prior to broadcasting of the inputted information and the identification of the RF receiver to the RF receiver.

329 326

~~452.~~ A method in accordance with claim ~~449~~ wherein:

the identification of the RF receiver is compared with permissible identification numbers of RF receivers in the RF system to determine if the inputted information and the identification of the RF receiver should be transmitted by the RF system to the RF receiver.

330 326
~~453.~~ A method in accordance with claim ~~449~~ wherein:

the inputted information and the identification of the RF receiver are transmitted by the RF system and broadcast to RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

331 327
~~454.~~ A method in accordance with claim ~~450~~ wherein:

the inputted information and the identification of the RF receiver are transmitted by the RF system and broadcast to RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

324 322
~~455.~~ A method in accordance with claim ~~447~~ wherein:

the inputted information and the identification of the RF receiver are transmitted by the RF system and broadcast to RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

325 323
~~456.~~ A method in accordance with claim ~~448~~ wherein:

the inputted information and the identification of the RF receiver are transmitted by the RF system and broadcast to RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

332

~~457~~. In a system for transmitting and distributing inputted information contained in electronic mail originating from a communication system and transmitted through an interface to a RF system which broadcasts at least the inputted information and an identification of a RF receiver to the RF receiver with the interface being a destination in the communication system to which electronic mail is delivered by the communication system in response to an address of the destination in the electronic mail and at least the inputted information and the identification of the RF receiver are transmitted from the interface to the RF system, are transmitted by the RF system to at least one broadcast location in the RF system and are broadcasted from the at least one broadcast location to the RF receiver, the method comprising:

connecting a processor to the communication system;

originating the electronic mail at the processor with the electronic mail including (a) the address of the destination to which the electronic mail is delivered by the communication system, (b) the identification of the RF receiver, and (c) the inputted information to be received by the RF receiver; and

storing received broadcasted information in a memory and processing the information stored in the memory with an application program executed by another processor coupled to the memory.

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333 ~~458~~. A method in accordance with claim 332 ~~457~~ wherein:

the identification of the RF receiver is compared with permissible identification numbers of RF receivers in the RF system to determine if at least the inputted information and the identification of the RF receiver should be transmitted by the RF system to the RF receiver.

334 ~~459~~. A method in accordance with claim 333 ~~458~~ wherein:

information is combined with the inputted information which is used by the RF system during transmission of at least the identification of the RF receiver and the inputted information to the at least one broadcast location where at least the inputted information and the identification of the RF receiver are broadcasted to the RF receiver.

335 ~~460~~. A method in accordance with claim 332 ~~457~~ wherein:

a header is deleted from the electronic mail and then at least the inputted information and the identification of the RF receiver are broadcasted from the at least one broadcast location to the RF receiver.

336 335

~~461.~~ A method in accordance with claim ~~460~~ wherein:

information is combined with the inputted information which is used by the RF system during transmission of at least the identification of the RF receiver and the inputted information to the at least one broadcast location where at least the inputted information and the identification of the RF receiver are broadcasted to the RF receiver.

337 332

~~462.~~ A method in accordance with claim ~~457~~ wherein:

the inputted information and the identification of the RF receiver are transmitted by the RF system and broadcast to RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

338 333

~~463.~~ A method in accordance with claim ~~458~~ wherein:

the inputted information and the identification of the RF receiver are transmitted by the RF system and broadcast to RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

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339 334

~~464~~. A method in accordance with claim ~~459~~ wherein:

the inputted information and the identification of the RF receiver are transmitted by the RF system and broadcast to RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

340 335

~~465~~. A method in accordance with claim ~~460~~ wherein:

the inputted information and the identification of the RF receiver are transmitted by the RF system and broadcast to RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

341 336

~~466~~. A method in accordance with claim ~~461~~ wherein:

the inputted information and the identification of the RF receiver are transmitted by the RF system and broadcast to RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system.

REMARKS

The specification has been amended to contain the chain of copendency back to Serial Number 07/702,939, filed May 20, 1991.

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The following remarks are provided for the Examiner to facilitate the Examiner's examination of the newly submitted claims 86-466.

Claims 86-165 are drawn to an interface as disclosed in the specification and illustrated in Fig. 9 of the drawings which connects an electronic mail system 100 to an RF information transmission network 302. The electronic mail system has been claimed generically as a communication system which transmits electronic mail and the RF information transmission network has been claimed generically as an RF system. The interface is recited as having a processor which performs processing of information contained within electronic mail to produce a processed output. Claims 86-165 are patentable for the same reasons that the Examiner found the claims to be patentable in United States Patent 5,819,172.

Claims to an interface of the scope of claims 86-165 have previously not been submitted by the Applicant. In Serial Number 08/443,430, claim 142 recited an interface which was broader than claims 86-165. The Examiner in charge of that application rejected claim 142 as being anticipated by United States Patent 4,845,658 which does not disclose the subject matter of claim 86 including an interface including a processor which processes at least the information contained within the electronic mail and outputs a processed output including the information within the electronic mail and an identification to a RF system. A copy of the '658 Patent is enclosed, the Examiner's rejection of claim 142 and claim 142.

Claims 396-435 claim an interface and a method of transmitting information. The interface of these claims corresponds to the interface between processor 312 of Fig. 9 and the RF information transmission network 302. The specification discloses that the processors 312 are "only required to have a telephone modem and support programming to format information for RF transmission to a destination processor and are not required to have the necessary electronic mail system software". The system in which the interface is contained transmits alphanumeric information inputted in digital format to the communication system from a processor which is processed by a modulator to produce a modulated transmission which is transmitted by the communication system. The operation of the processors 312 in conjunction with a modem supports this subject matter.

The subject matter of claims 396-435 is not limited to electronic mail. The Examiner indicated during the interview that he would consider this subject matter in a new field of search in view of it not being previously presented.

The independent claims in newly submitted claims 436-466 are based upon claims 188 *et seq.* of United States Patent 5,819,172. Claims 436-466 have been somewhat modified in terminology from the terminology in the '172 Patent in that the reference in the '172 Patent claims to "an electronic mail system" has been replaced with "a communications system for transmitting electronic mail" and "electronic mail message" has been changed to "electronic mail". Each of the

independent claims in claims 436-457 are narrower in scope than the independent claims 188 *et seq.* in the '172 Patent in that the additional limitation has been added of "storing the received inputted information in memory and processing the information stored in memory with an application program executed by another processor coupled to the memory". This subject matter is supported by the original disclosure regarding the description of receiver 119.

Dependent claims 351, 353, 355, 357, 359 and 361 claim the function of the system as "which at least part of the packet is transmitted by the RF system and broadcast at a location in the RF system which is determined by the RF system processing information stored in the RF system", and dependent claims 440-443, 448, 453-456 and 462-466, claim "the inputted information and the identification of the RF receiver are transmitted by the RF system and broadcast to the RF receiver at a location in the RF system which is determined by the RF system processing information stored in the RF system". This subject matter is supported by the description of the wireless network on page 24, lines 6-15, of the specification "if a receiver 119 is to be programmed to receive messages in a particular area serviced by a lata switch 114 as a consequence of the subscriber travelling, the channel programming command utilizes the channels stored in the file number corresponding to the jurisdiction of the lata switch 114 in the area to which the subscriber is to travel to dynamically program the channels which the paging receiver is

to receive for that area", and the description on page 22, lines 19-35, of the specification describing the options where pages are transmitted which stores the area to which the subscriber is to travel. The description in the aforementioned portions of the specification of dynamically programming the frequency of the receiver in association with traveling of the subscriber in combination with the destination field 178 of where each of the pages or data transmissions may be programmed to be transmitted provides for forwarding of the information inputted by electronic mail to a broadcast location based upon the claimed information stored in the RF system.

The remaining claims recite subject matter which is patentable for the same reasons that the Examiner found the subject matter of the claims of United States Patent 5,819,172 patentable.

Finally, the various dependent claims which refer to the removal of information and specifically, the removal of a header are supported by the code listing in the appendix which was considered in the examination of United States Patent 5,819,172 by the Examiner.

A terminal disclaimer is submitted herewith.

The Examiner is thanked for the courtesy extended to the undersigned during the interview on April 28, 1999.

Early allowance of the claims is respectfully requested.

To the extent necessary, Applicants petition for an extension of time under 37 C.F.R. §1.136. Please charge any

paper, including extension of time fees, to Deposit Account No. 01-2135 (780.29643CX3) and please credit any excess fees to such Deposit Account.

Respectfully submitted,

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Attachment

DES:dlh